## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32616

A. CLASSIFICATION OF SUBJECT MATTER					
PC(7) : A61K 31/4745, 31/496, 31/506, 31/5377, 31/541, 31/551; C07D 471/04, 401/14, 405/14; A61P 37/02					
US CL : 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597  According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
	cumentation searched (classification system followed		585 507		
U.S.: 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
CAS ONLIN		or and once and, whose production of			
C. DOCKE CENTER CONSUMERED TO BE DEVENUE.					
	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
X,P	US 2004/0176367 A1 (GRIESGRABER et al) 09 September 2004 (09.09.2004), see entire document, especially page 53, Example 22; pages 54-56. compound I-Id.		1-4, 11-13, 15-20, 22- 24, 26-33, 35-37, 39,		
	document, especially page 33, Example 22, pages 3	4-50. compound 1-1a.	40, 42-63, 66-75		
			10, 12 00,00		
A	US 6,200,592 B1 (TOMAI et al) 13 March 2001 (1	3.03.2001), columns 3-6, Formulae I-	1-4, 11-13, 15-20, 22-		
	v.		24, 26-33,35-37, 39-		
			40, 42-63, 66-75		
A	US 4,753,951 A (TAKADA et al) 28 June 1988 (28.06.1988), columns 13-70.		91-93		
A	US 4,698,348 A (GERSTER) 06 October 1987 (06.10.1987), column 5, line 57.		91-93		
1 **	05 4,050,540 M (GERBTER) 00 000001 1507 (00.10.1507), column 5, mic 57.				
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	dament in the second of the se				
	documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents:		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the			
	defining the general state of the art which is not considered to be of	principle or theory underlying the inves			
_	relevance	"X" document of particular relevance; the o	kimed invention cannot be		
"E" carlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider	ed to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to					
establish t specified)	he publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step			
1		with one or more other such document			
"O" document referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art			
"P" document published prior to the international filing date but later than the		"&" document member of the same patent i	amily		
priority date claimed					
Date of the actual completion of the international search		Date of mailing of the international sear	ch report		
08 March 200	05 (08.03.2005)	1			
Name and mailing address of the ISA/US		Authorized officer			
Mail Stop PCT, Attn: ISA/US		Authorized officer  Evelyn Huang  Telephone No. (571) 272-1600			
Commissioner for Patents P.O. Box 1450		Every in ruling ( ). Notes ( ) ( )			
Ale	xandria, Virginia 22313-1450	Telephone No. (571) 272-1600	<i>//</i>		
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32616 Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) Box No. II This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claims Nos.: 5-10,14,21,25,34,38,41,64,65 and 76-90 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Observations where unity of invention is lacking (Continuation of item 3 of first sheet) Box No. III This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report 3. covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest. Remark on Protest No protest accompanied the payment of additional search fees.

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING  This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.				
Group I, claim(s) 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63 and 66-75, drawn to a 4-aminoimidazoquinoline compound, its composition and method of use.				
Group II, claim(s) 91-93, drawn to an imdazoquinoline compound of formula IX.				
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to an immunomodulating 4-aminoimidazoquinoline compound. Group II is drawn to an imidazoquinoline compound of Formula IX, which has psychostimulant activity.				
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